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Amendments to the Claims

1	1.	(currently amen	ded) A method	of controlled applic	a -
2	tion of fluid	pressure to a lo	oad, comprising	the steps of:	

- (a) providing at least two pressure converters each having an output side connectable through respective check valves with a source of a pressurizing fluid and with said load, a drive side pressurizable in opposite directions to draw said fluid into and discharge said fluid from a respective output side, and a connection between each pressure side and the respective output side whereby each pressure converter has a member displaceable by pressurization of the respective drive side;
- 11 (b) measuring the displacement of each of said members;
 12 and
 - (c) controlling the pressurization of each of said drive sides so as to reduce an output pressure of a respective output side of one of said pressure converters as the respective member approaches a limiting position in a pressure stroke of said one of said pressure converters, and complementarily simultaneously increasing an output pressure of a respective output side of another of said pressure converters and a displacement of the respective member of said other pressure converter by initiating a pressure stroke of said other pressure converters.

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- 2. (original) The method defined in claim 1 wherein the pressurization of said drive sides is controlled through respective valves and a common controller for said valves receiving inputs from respective position sensors responding to the positions of said members, said method further comprising the step (d) of repeating steps (a) through (c) a plurality of times until a certain pressure is reached at said load.
- 3. (original) The method defined in claim 2 wherein
 2 said load is a length of pipe which closed at its ends and is
 3 pressurized by said pressure converters to test the pipe.
 - 4. (original) The method defined in claim 3 wherein only two of said pressure converters are provided and are alternately operated to charge said pipe with said fluid.
 - 5. (canceled)
 - 6. (canceled)
 - 7. (canceled)

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1	8. (currently amended) The system defined in claim $7 \ \underline{9}$				
2	wherein said output sides are connected to said pipe through a				
3	valve enabling draining of said pipe following a test.				
1	9. (currently amended) A system for controlled applica-				
2	tion of fluid pressure to a load in the form of a pipe closed at				
3	its ends to pressure test the pipe, said system, comprising:				
4	at least two pressure converters each having an output				
5	side connectable through respective check valves with a source of a				
6	pressurizing fluid and with said load, a drive side pressurizable				
7	in opposite directions to draw said fluid into and discharge said				
8	fluid from a respective output side, and a connection between each				
9	pressure side and the respective output side whereby each pressure				
10	converter has a member displaceable by pressurization of the				
11	respective drive side;				
12	a respective displacement measuring device cooperating				
13	with each of said members for measuring the displacement of each of				
14	said members;				
1.5	a common control unit for controlling the pressurization				
16	of each of said drive sides so as to reduce an output pressure of a				
17	respective output side of one of said pressure converters as the				
18	respective member approaches a limiting position in a pressure				
19	stroke of said one of said pressure converters, and simultaneously				

increasing an output pressure of a respective output side of

another of said pressure converters and effecting a displacement of

the respective member of said other pressure converter by initiat-

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ing a pressure stroke of said other pressure converters, the pressurization of said drive sides being controlled through respec-tive valves and a common controller for said valves forming said control unit and receiving inputs from respective displacement measuring devices responding to the positions of said members, the pressure strokes being repeated until a certain pressure is reached at said load; and proportional/integral regulator between said output sides

10. (currently amended) The system defined in claim 7 9 wherein each of said pressure converters has at said drive side a respective double-acting cylinder and a piston, each of said output sides has a respective cylinder and piston and the respective member of each of said pressure converters connects the pistons to the cylinders thereof.

and said pipe for delivering a signal to said common controller.

11. (currently amended) A system for controlled application of fluid pressure to a load in the form of a pipe closed at its ends to pressure test the pipe, said system, comprising:

at least two pressure converters each having an output side connectable through respective check valves with a source of a pressurizing fluid and with said load, a drive side pressurizable in opposite directions to draw said fluid into and discharge said fluid from a respective output side, and a connection between each pressure side and the respective output side whereby each pressure

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10	converter has a member displaceable by pressurization of the
11	respective drive side;
12	a respective displacement measuring device cooperating
13	with each of said members for measuring the displacement of each of
14	said members;
15	a common control unit for controlling the pressurization
16	of each of said drive sides so as to reduce an output pressure of a
17	respective output side of one of said pressure converters as the
18	respective member approaches a limiting position in a pressure
19	stroke of said one of said pressure converters, and simultaneously
20	increasing an output pressure of a respective output side of
21	another of said pressure converters and effecting a displacement of
22	the respective member of said other pressure converter by initiat-
23	ing a pressure stroke of said other pressure converters, the
24	pressurization of said drive sides being controlled through respec-
25	tive valves and a common controller for said valves forming said
26	control unit and receiving inputs from respective displacement
27	measuring devices responding to the positions of said members, the
28	pressure strokes being repeated until a certain pressure is reached
29	at said load; and
30	each of said pressure converters has at said drive side a
31	respective double-acting cylinder and a piston, each of said output
32	sides has a respective cylinder and piston and the respective
33⋅	member of each of said pressure converters connects the pistons to
34	the cylinders thereof, each of said members is being a rack and

- 35 said displacement measuring devices include including pinions
 36 engageable with said racks.
- 12. (original) The system defined in claim 11 wherein each of said double-acting cylinders is connected to two ports of a four-port, three position valve having two further ports connected to a hydraulic pressure source and drain respectively, each of said four-port, three-position valves having an electrical actuator operated by said common controller.

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